

## United States Environmental Protection Agency Washington, DC 20460

# Interagency Agreement/ Amendment

Part 1 - General Information

1.	EPA	ΙA	Identification	Number
			DW-75-95	837801 -

3. Other Agency IA ID Number (if known)

2. Funding Location by Region EPA R5

4. Awarding Office

5. Type of Action

Augmentation: Increase

6. IA Specialist: Yvette Downs

206-553-6321

Downs.Yvette@epa.gov

# 7. Name and Address of EPA Organization

US Environmental Protection Agency IASSC West

1200 Sixth Avenue, Suite 900, OMP-145

Seattle, WA 98101

9. DUNS: 029128894

10. BETC: DISB

8. Name and Address of Other Agency Department of Health & Human Services

BPH / 536 South Clark Street

Chicago, IL 60605

11. DUNS: 134153287

12. BETC: COLL

## 13. Project Title and Description

Analysis, Interpretation and Data Management of Great Lakes Water for Inorganic Chemicals

This project supports the Great Lakes Restoration Initiative (GLRI) and the Great Lakes Water Quality Agreement under the Public Law 112-74. This agreement provides funding to Federal Occupational Health (FOH) contractors to help implement the priorities of the GLRI. FOH contractors will provide analytical support for nutrient analysis for portions of the Nearshore and AEMECP focus areas. As part of the Nearshore program, the phosphorus data from Lake Erie will augment existing long-term monitoring, and provide information to aid in assessing and managing phosphorus in that Lake. Additionally, FOH will work with GLNPO long-term, offshore monitoring efforts.

This amendment adds \$436,448 of EPA funding and extends project/budget period to 10/24/2015.

## 14. EPA Project Officer (Name, Address, Telephone Number)

Glenn Warren

77 West Jackson Blvd. (G-17J) Chicago, IL 60604-3507

312-886-2405

E-Mail: warren.glenn@epa.gov

FAX: 312-692-2131

16. Project Period: 10/25/2012 to 10/24/2015

15. Other Agency Project Officer (Name, Address, Telephone)

Michelle Stemmons

BPH / 536 South Clark Street

Chicago, IL 60605

312-886-0413

E-Mail: michelle.stemmons@foh.hhs.gov

FAX: 312-886-0434

17. Budget Period: 10/25/2012 to 10/24/2015

#### 18. Scope of Work (See Attachment)

Scope of Work is Attached.

19. Employer/Tax ID No. 520852695

20. CAGE No: 347A4

21. ALC: 68-01-0727

23. Other Agency Type Federal Agency

Consolidated Appropriations Act; 2012; Public Law 112-74

24. Revise Reimbursable Funds and Direct Fund Cites (only complete if applicable)

22. Statutory Authority for Transfer of Funds and Interagency Agreement

 Previous Funding
 This Action
 Amended Total

 Revise Reimbursable (in-house)
 0

 Direct Fund Cite (contractor)
 0

 Total
 0

Funds	Previous Amount	Amount This Action	Total Amount
25. EPA Amount	\$491,123	\$436,448	\$927,571
26. EPA In-Kind Amount			\$0
27. Other Agency Amount			\$0
28. Other Agency In-Kind Amount			\$0
29. Total Project Cost	\$491,123	\$436,448	\$927,571

### 30, Fiscal Information

Treas. Symbol	DCN	FY	Appropriation	Budget Org	PRC	Object Class	Site/Project	Cost Org	Ob/De-Ob Amt
683/40108	1305HBX022	1314	В	05HT0	202BJ7XF5	2506			436,448
									436 448

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	EPA IAG Identification Number					
		_		DW-75-95837801 - 1		
31. Budget Categories	Itemization of All Previous Actions	Itemization of This Action	In-Kind Itemization of This Action	Itemization of Total Project Cost to Date		
(a) Personnel	\$0	\$24,150		\$24,150		
(b) Fringe Benefits	\$0			\$0		
(c) Travel	\$0	\$4,400		\$4,400		
(d) Equipment	· \$0	,	v)	. \$0		
(e) Supplies	\$0	\$2,680		\$2,680		
(f) Procurement / Assistance	\$491,123	\$364,838		\$855,961		
(g) Construction	\$0			. \$0		
(h) Other	\$0	\$40,380	•	\$40,380		
(i) Total Direct Charges	\$491,123	\$436,448	\$0	\$927,571		
(j) Indirect Costs:	\$0			\$0		
Charged - Amount Rate: % Base: \$ Not Charged: Funds-Out: Not charged by Other A Estimate by other Agenc						
Amount \$						
(k) Total (EPA Share 100.00 %) (Other Agency Share 0.00 %)	\$491,123	\$436,448	\$0	\$927,571		
32. How was the IDC Base calculate	ed?					
33. Is equipment authorized to be find (Identify all equipment costing)		l, purchased, or rented	with EPA funds? X Yes	s No		
34. Are any of these funds being us		ents? Xes 1	No			
Type of Extramural Agreement	Contract		· · · · · · · · · · · · · · · · · · ·			
Contractor/Recipient Name (if known)	Total Extra	mural Amount Under T	his Project	Percent Funded by EPA (if known)		
TBD			855961 <b>Total</b> \$ 855,961.00	100		
	Part III - Fundii	ng Methods and Bi	Illing Instructions			
35.		y Location Code (/	<del>-</del>			
Disbursement Agreement	Request for repayment Office, Cincinnati, OH 4		itemized on SF 1080 and	submitted to the Financial Management		
Repayment	Monthly	Quarterly	Upon Com	pletion of Work		
Only available for use by Federal agencies on working capital fund or with appropriate justification of need for this type of payment method. Unexpended funds at completion of work will be returned to EPA. Quarterly cost reports will be forwarded to the Financial Management Center, EPA, Cincinnati, OH 45268-7002.						
Used to transfer obligational authority or transfer of function between Federal agencies. Must receive prior approval by the Office of Comptroller, Budget Division, Budget Formulation and Control Branch, EPA Hdqtrs. Forward appropriate reports to the Financial Reports and Analysis Branch, Financial Management Division, PM-226F, EPA, Washington, DC 20460.						
36. Reimbursement Agreement Repayment Advance Allocation Transfer-In						
Other Agency's Billing Address (inc	lude ALC or Station Symb	ol Number)	Other Agency's Billing I	nstructions and Frequency		
EPA Form 1610-1 (Rev. 11-09). Previous edi	tions are obsolete	<del></del>				

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## Part IV - Acceptance Conditions

**EPA Identification Number** 

DW-75-95837801 - 1

37. Terms and Conditions, when included, are located at the end of the 1610-1, or as an attachment.

### Part V - Offer and Acceptance

Note: A) For Fund-out actions, the agreement/amendment must be signed by the other agency official in duplicate and one original returned to the Grants and IA Management Division for Headquarters agreements or to the appropriate EPA Regional IA administration office within 3 calendar weeks after receipt or within any extension of time that may be granted by EPA. The agreement/amendment must be forwarded to the address cited in item 29 after acceptance signature.

Failure to return the properly executed document within the prescribed time may result in the withdrawal of offer by EPA. Any change to the agreement/amendment by the other agency after the document is signed by the EPA Award Official, which the Award Official determines to materially alter the agreement/amendment, shall void the agreement/amendment.

B) For Funds-In actions, the other agency will initiate the action and forward two original agreements/amendments to the appropriate EPA program office for signature. The agreements/amendments will then be forwarded to the appropriate EPA IA administration office for signature on behalf of the EPA. EPA will return one original copy after acceptance returned to the other agency after acceptance.

EPA IA Administration Office	e (for administrative assistance)	EPA Program Office (for technical assistance)	EPA Program Office (for technical assistance)		
38. Organization/Address		39. Organization/Address			
U.S. Environmental Protection	<i>5</i>	US Environmental Protection Agency R5 - Region 5			
1200 Sixth Avenue, Suite 900, OMP-145 Seattle, WA 98101		77 West Jackson Blvd.			
		Chicago, IL 60604-3507			
	Award Official on Behal	f of the Environment Protection Agency			
40. Digital signature applie	d by EPA Award Official   Armina K. No	lan - Manager - Grants and Interagency Agreements Unit	Date		
			08/26/2013		
	Authorizing Offic	ial on Behalf of the Other Agency			
1. Signature Typed Name and Title			Date		
	Robert Gibbs, Program M	Robert Gibbs, Program Manager			

EPA Form 1610-1 (Rev. 11-09) Previous editions are obsolete.

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## United States Environmental **Protection Agency** Washington, DC 20460

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		DW-75-95837801 - (

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3. Other Agency IA ID Number (if known) 4. Awarding Office IASSC West

5. Type of Action

New

6. IA Specialist: Yvette Downs

206-553-6321 Downs.Yvette@epa.gov

7. Name and Address of EPA Organization

US Environmental Protection Agency **IASSC West** 

1200 Sixth Avenue, Suite 900, OMP-145

Seattle, WA 98101

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10. BETC: DISB

8. Name and Address of Other Agency Department of Health & Human Services BPH / 536 South Clark Street

Chicago, IL 60605

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12. BETC: COLL

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312-886-2405

E-Mail: warren.glenn@epa.gov

FAX: 312-692-2131

16. Project Period: 10/25/2012 to 10/24/2013

Scope of Work is Attached.

15. Other Agency Project Officer (Name, Address, Telephone)

Michelle Stemmons

BPH / 536 South Clark Street

Chicago, IL 60605

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E-Mail: michelle.stemmons@foh.hhs.gov

FAX: 312-886-0434

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20. CAGE No: 347A4

21. ALC: 68-01-0727

22. Statutory Authority for Transfer of Funds and Interagency Agreement

Consolidated Appropriations Act; 2012; Public Law 112-74

23. Other Agency Type Federal Agency

24. Revise Reimbursable Funds and Direct Fund Cites (only complete if applicable)

	Previous Funding	This Action	Amended Total
Revise Reimbursable (in-house)		. 0	0.
Direct Fund Cite (contractor)		0	0
Total .			. 0

Funds	Previous Amount	Amount This Action	Total Amount
25. EPA Amount		\$491,123	\$491,123
26. EPA In-Kind Amount			\$0
27. Other Agency Amount			\$0
28. Other Agency In-Kind Amount			\$0
29. Total Project Cost		\$491,123	\$491,123

30	Fieral	Information

T Cub-1	DCN	ΓV	Annropriation	Budget Org	PRC	Object Class	Site/Project	Cost Ora	Ob/De-Ob Amt
Treas. Symbol	DCN	FT	Appropriation	budget Org	PKC	Object Class	Site/Fioject	Cost Org	Ob/De-Ob Ailit
682/30108	1205HBX018	1213	В	05HT0	202BJ7XF5	2506	•		491,123
									491.123

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	EPA IAG Identification Number						
				DW-75-95837801 - 0			
31. Budget Categories	Itemization of All Previous Actions	Itemization of This Action	In-Kind Itemization of This Action	Itemization of Total Project Cost to Date			
(a) Personnel		\$0		\$0			
(b) Fringe Benefits				\$0			
(c) Travel		\$0		\$0			
(d) Equipment				\$0			
(e) Supplies				\$0			
(f) Procurement / Assistance	1	\$491,123		\$491,123			
(g) Construction			N	\$0			
(h) Other				\$0			
(i) Total Direct Charges	\$0	\$491,123	\$0	\$491,123			
(j) Indirect Costs:	\$0		***	, \$0			
Charged - Amount Rate: % Base: \$ Not Charged:			:				
Funds-Out: Not charged by Other A Estimate by other Agenc Amount \$							
(k) Total (EPA Share 100.00 %) (Other Agency Share 0.00 %)	\$0	\$491,123	\$0	\$491,123			
32. How was the IDC Base calculat	ed?	• •		1			
33. Is equipment authorized to be f	urnished by EPA or leased	, purchased, or rented	with EPA funds? 🗵 Yes	s□ No			
(Identify all equipment costing	······································		·				
34. Are any of these funds being us		ents? 🛚 Yes 🗀 M	No	· · · · · · · · · · · · · · · · · · ·			
	Contract						
Contractor/Recipient Name (if known)	Total Extrar	nural Amount Under T	his Project	Percent Funded by EPA (if known)			
TBD			491123 Total. \$ 491,123.00	100			
	Part III - Fundin	g Methods and Bi	illing Instructions				
35.	(Note: EPA Agency	Location Code (A	ALC) - 68010727)				
Disbursement Agreement	Request for repayment of Office, Cincinnati, OH 45	of actual costs must be 5268-7002:	itemized on SF 1080 and s	submitted to the Financial Management			
⊠ Repaymeлt	Monthly Monthly	Quarterly	Upon Com	pletion of Work			
Advance	Only available for use by Federal agencies on working capital fund or with appropriate justification of need for this						
Allocation Transfer-Out	approval by the Office	of Comptroller, Budget ports to the Financial	Division, Budget Formulat	Federal agencies. Must receive prior tion and Control Branch, EPA Hdqtrs. anch, Financial Management Division,			
36. Reimbursement Agreement Allocation Transfer-In	Repayment	Advance					
Other Agency's Billing Address (inc	lude ALC or Station Symbo	ol Number)	Other Agency's Billing Ir	nstructions and Frequency			
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EPA IA Administration Office (for administrative assistance)		EPA Program Office (for technical assistance)		
38. Organization/Address		39. Organization/Address		
U.S. Environmental Protection Agency IASSC West 1200 Sixth Avenue, Suite 900, OMP-145 Seattle, WA 98101		US Environmental Protection Agency R5 - Region 5 77 West Jackson Blvd. Chicago, IL 60604-3507		
	Award Official on Behal	f of the Environment Protection Agency		
40. Digital signature applied by EPA Award Official   Armina K. Nolan - Manager - Grants and Interagency Agreements Unit			Date	
			10/25/2012	
	Authorizing Offic	ial on Behalf of the Other Agency		
41. Signature	Typed Name and Title		Date	
	Robert Gibbs, Program Manager		11/20/2012	

EPA Form 1610-1 (Rev. 11-09) Previous editions are obsolete.

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# Scope of work for Interagency Agreement with Federal Occupational Health:

The main tasks for this agreement are as follows:

## Chemical analysis:

As part of two regular surveys carried out annually (spring and summer) on all of the Laurentian Great Lakes, chemical analyses will be performed on water samples from several depths per station. There are approximately 73 stations throughout the Great Lakes. During the spring survey there are 432 samples generated. During the summer survey there are 576 samples generated. Chemical analyses, with the exception of dissolved reactive phosphorus are performed on preserved samples shipped to a land-based laboratory. In addition to field samples, quality assurance samples add approximately 10% to the total. Chemical analyses to be performed are:

Total phosphorus (MDL <= 1 microgram/liter)

Total dissolved phosphorus (MDL <= 1 microgram/liter)

Nitrite & nitrate (MDL <= 0.03 milligram/liter)

Dissolved reactive silica (MDL <= 0.01 milligram/liter

Chloride (MDL <= 0.13 milligram/liter)

Dissolved reactive phosphorus conducted aboard the R/V Lake Guardian (Lakes Michigan and Erie). (MDL <= 0.5 microgram/liter)

At each station during the spring and summer surveys, a limited number of water samples (non-filtered) will be analyzed for major ions. There will be approximately 241 samples generated for these analyses in spring, and during the summer there will be approximately 161 samples generated: these estimates include the quality assurance samples associated with the analyses. The major ions to be analyzed are:

Calcium (MDL <= 1.0 milligram/liter) Magnesium (MDL <= 1.0 milligram/liter) Sodium (MDL <= 1.0 milligram/liter) Potassium (MDL <= 1.0 milligram/liter)

In addition, at the 14 master stations (2-3 per lake), large volume samples are filtered and the filters analyzed for particulate organic carbon (MDL <= 5 microgram/liter), total particulate nitrogen (MDL <= 0.03 milligram/liter), total particulate phosphorus (MDL <=1 microgram/liter) and total suspended solids.

## Chemical preparation for surveys:

A number of standards and reagents used for other operations during surveys are to be prepared. These include, but are not limited to:

Formazin turbidity standards High and low check standards for pH, specific conductance, total alkalinity and turbidity.

# Participation in spring and summer surveys:

In addition to the on-board analysis of dissolved reactive phosphorus in Lakes Michigan and Erie, a chemist will accompany the R/V Lake Guardian on its spring and summer surveys. These surveys each last approximately 30-40 days. During this time, the chemist is responsible for bottle labeling and water sample management for samples that will be transported to the land-based laboratory for analysis. The chemist works a 12-hour shift, usually in the 6:00 am to 6:00 pm time slot.

A second environmental scientist will also work aboard the ship during the surveys, participating in sampling, maintaining scientific instrumentation, performing data entry and quality assurance tasks, assisting in operation and maintenance of chemical and biological sensors used during the monitoring surveys. The environmental scientist works a 12-hour shift, usually in the 12:00 am to 12:00 pm time slot.

## Cooperative Science and Monitoring Initiative

The U.S. EPA, Great Lakes National Program Office and Environment Canada are participating in a science initiative to provide data to environmental managers. One of the Great Lakes is focused on, per year, and additional ship-based work is performed on that lake. One of the main questions on all the lakes deals with the nutrient levels in the open waters and nearshore waters. We anticipate monthly surveys, from May through September, on the lake of interest. During these surveys, chemical analyses will be performed on water samples from several depths per station. The number of station varies from lake-to-lake, but we expect approximately 75 samples per month will be generated through this initiative (a total of approximately 375 samples). The chemical analyses to be performed will be the regular nutrients analyzed for the spring and summer surveys. These are:

Total phosphorus (MDL <= 1 microgram/liter)

Total dissolved phosphorus (MDL <= 1 microgram/liter)

Nitrite & nitrate (MDL <= 0.03 milligram/liter)

Dissolved reactive silica (MDL <= 0.01 milligram/liter

Chloride (MDL <= 0.13 milligram/liter)

And potentially, Dissolved reactive phosphorus conducted aboard the R/V Lake Guardian. (MDL <= 0.5 microgram/liter)

#### **Method Development:**

Method development is undertaken by the chemist in response to monitoring and research needs. The most recent methods developed were bioavailable phosphorus (NaOH extractable P), and a low level method for dissolved reactive phosphorus to be performed aboard the ship.

We anticipate adding several cations and anions to the routine monitoring chemical suite and will require methods development for those.

## Data management/Data analysis:

The environmental scientist is required to manage data generated from the chemical and sensor sections of the monitoring program. This includes formatting chemical analytical data into a specified format (GLENDA) for reporting to the EPA. As part of this formatting, initial quality assurance assessments are performed. Additional quality assurance assessments, leading to acceptance and publication of the data are also performed by the environmental scientist.

The environmental scientist also analyzes and interprets the data from the monitoring program and presents this information in graphical form. This may include development of presentation formats and data and database organizational protocols.

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